

DEPARTMENT OF AVIATION SCIENCE AND TECHNOLOGY

Aviation Science and Technology Courses

AVST 105 Private Pilot Flight (3 Credits)

Lecture: 3

Private Pilot Flight (3) This course prepares the student for the FAA Private Pilot Practical Examination. Successful completion of this course will permit the student to perform as pilot in command of single engine aircraft transport of passengers or property without recompense, whether fees or employment. Three hours of lecture per week. FAA approved.

Prerequisite: AVST103. **Co-requisite:** AVST105L

Prerequisite(s): (AWS 103)

College/School: Col of Science, Engr & Tech

Department: Dept of TransportStud

AVST 200 Basics of Communications (3 Credits)

Lecture: 3

Basics of Communications (3) In accordance with FAA orders 7110.65 and 7110.10, the student will identify basic radio and interphone communications, ICAO phonetics, numbers usage, basic phraseology, coordination procedures, purpose and steps of the position relief briefing. Three hours of lecture per week.

College/School: Col of Science, Engr & Tech

Department: Dept of TransportStud

AVST 203 Introduction to Air Traffic Control (3 Credits)

Lecture: 3

College/School: Col of Science, Engr & Tech

Department: Dept of TransportStud

AVST 222 Laws & Ethics in HSEM (3 Credits)

Lecture: 3

College/School: Col of Science, Engr & Tech

Department: Dept of TransportStud

AVST 311 Intermediate Flight Practicum (3 Credits)

Lab: 3

Course is required for students to accumulate flight hours and experience. Consists of 36 hours of total flying time, to include 25 hours of solo instruction and 11 hours of dual flying time. Instruction shall be accomplished in an approved single engine fixed gear aircraft. 5 hours of pre-flight and post-flight instruction and briefing.

Prerequisite(s): (AVST 105 and AVST 105L)

College/School: Col of Science, Engr & Tech

Department: Dept of TransportStud

AVST 313 Int Flight Theory (3 Credits)

Lecture: 3

International Flight Theory (3) This course provides descriptions and familiarization of large transport category air craft and their on-board systems from electrical power systems to oxygen systems, to communication systems, and beyond. This course also contains general information and guidance for operators planning oceanic flights, including authorizations needed for operations outside the continental United States. This includes Special Areas of Operation (SAO) such as North Atlantic Minimum Navigation Performance Specifications (NAT/MNPS), Reduced Vertical Separation Minimums (RVSM), Area Navigation (RNAV), and Required Navigation Performance (RNP) air space. **Prerequisite:** AVST 312.

Prerequisite(s): (AVST 312)

College/School: Col of Science, Engr & Tech

Department: Dept of TransportStud

AVST 319 Crew Resource Management (0 Credits)

Lab: 0

College/School: Col of Science, Engr & Tech

Department: Dept of TransportStud

AVST 325 Airport Design & Operation (3 Credits)

Lecture: 3

Airport Design and Operation (3) The study of planning, design construction of airports. Three hours of lecture per week.

College/School: Col of Science, Engr & Tech

Department: Dept of TransportStud

AVST 345 Principles Aviation Property (3 Credits)

Lecture: 3

Principles of Aviation Property (3) Study of the processes of planning, organizing, directing, and controlling aviation property at fixed based operations. Three hours of lecture per week. **Prerequisite:** AVST 371.

Prerequisite(s): (AVST 371)

College/School: Col of Science, Engr & Tech

Department: Dept of TransportStud

AVST 380 Flight Instruction Airplane (3 Credits)

Lecture: 3

Flight Instruction Airplane (3) This course is a study of the fundamental so far plane flight instruction involving educational principles of the learning and teaching process, communication, teaching methods, critiquing, evaluating, and planning instruction activity. Three hours of lecture per week. **Prerequisite:** AVST 315.

Prerequisite(s): AVST 380L (may be taken concurrently)

College/School: Col of Science, Engr & Tech

Department: Dept of TransportStud

AVST 380L Certified Flight Instructor-Airplane Lab (1 Credits)

Lab: 1

Provides student the flight time and instruction needed to demonstrate, teach, and evaluate their performance in all maneuvers and operations required to earn the Private Pilot Commercial Pilot Certificates. 1.00 credit hour.

College/School: Col of Science, Engr & Tech

Department: Dept of TransportStud

AVST 402 Effective HSEM CM & Leadership (3 Credits)

Lecture: 3

Effective HSEM Communications & Leadership (3) Prepares future aviation professionals with communication and leadership skills to fulfill team-building roles with government and non-government agencies during times of aviation disasters. Three hours of lecture per week. Prerequisite or Co-requisite: AVST 310.

Prerequisite(s): (AVST 310)

College/School: Col of Science, Engr & Tech

Department: Dept of Transport Stud

AVST 408 Multi Engine-CFI (3 Credits)

Lecture: 3

Provides the student with the flight time and instructions to demonstrate, teach and evaluate performance of students in all maneuvers and operations required to earn the FAA Multiengine Rating. 1.00 Credit hour.

Prerequisite(s): AVST 408L (may be taken concurrently)

College/School: Col of Science, Engr & Tech

Department: (R) Dept of Engineering Tech

AVST 408L Multi Engine CFI lab (1 Credits)

Lab: 1

College/School: Col of Science, Engr & Tech

Department: (R) Dept of Engineering Tech

AVST 425 Flight Physiology (3 Credits)

Lecture: 3

Flight Physiology (3) A study of the causes, symptoms, treatment, and prevention of medical issues associated with flight. Three hours of lecture per week. Prerequisite: AVST 105, AVST 105L, and AVST 315.

Prerequisite(s): (AVST 105 and AVST 105L and AVST 315)

College/School: Col of Science, Engr & Tech

Department: Dept of Transport Stud